GCSE Foundation
Half Practice Paper

LUCKY MATHS

More papers

SCAN ME

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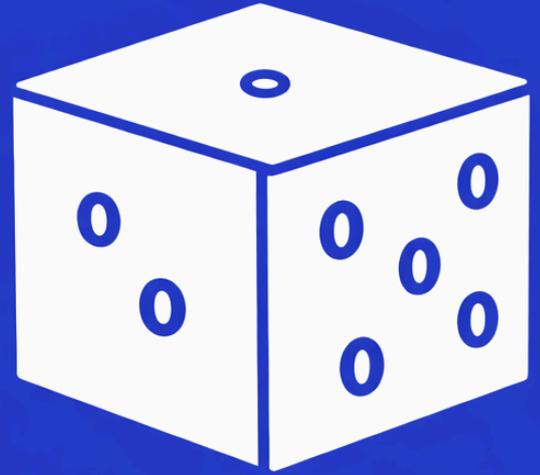
Solutions

Instructions

Use black ink or ball-point pen.
Draw diagrams in pencil.
Write your answers in the spaces provided and show all working.
The total mark for this paper is 40
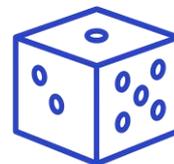
Materials

Black pen
Pencil
Ruler

1   Write $\frac{1}{5}$ as a **percentage**

....%

(Total for Question 1 is 1 mark)

_____

2   Write down the **value** of 2^3

....

(Total for Question 2 is 1 mark)

_____

3   79% of the counters in a bag are blue.

What **percentage** of counters in the bag are not blue?

....%

(Total for Question 3 is 1 mark)

_____

4   **Simplify** 2 x 5t

....

(Total for Question 4 is 1 mark)

_____

5   Write down the **value** of the number **6** in the number 2680

....

(Total for Question 5 is 1 mark)

_____
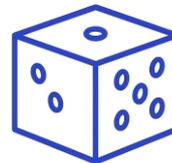
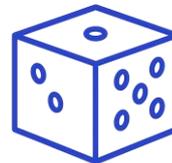**6**   Reuben buys some drink bottles.

Each drinks bottle costs **£3.50**.

Reuben pays with a **£20** note.

He receives **£2.50** change.

Work out the **number of drinks bottles** Reuben buys.

....

(Total for Question 6 is 3 marks)

7 (a) Tom chooses at **random** a letter from the word **FUNCTION**.

On the probability scale below, mark with a cross (x) the **probability** that Tom chooses the letter N.

$$0 \qquad \frac{1}{4} \qquad \frac{1}{2} \qquad \frac{3}{4} \qquad 1$$

(1)

(b) On the probability scale below, mark with a cross (x) the **probability** that Tom chooses the letter Z.

$$0 \qquad \frac{1}{4} \qquad \frac{1}{2} \qquad \frac{3}{4} \qquad 1$$
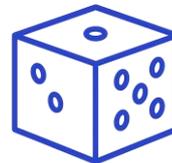
(1)

(Total for Question 7 is 2 marks)

_____

8 The pictogram below shows the number of **computers** sold in a shop on **different days** of the week.

▮▮▮▮▮▮ = 8 computers

Day	Computers sold
Monday	▮▮▮▮▮▮ ▮▮▮▮▮▮
Tuesday	▮▮▮▮▮ ▮▮
Wednesday	▮▮▮▮▮ ▮▮▮▮▮▮ ▮▮▮
Thursday	▮▮▮▮
Friday	▮▮▮▮▮ ▮▮▮▮▮ ▮▮▮▮▮

(a) Which day had the **greatest number of computers sold**?

…………………………………….

(1)

(b) How many **computers** were sold **altogether** from Monday to Friday?

…………………………………….

(3)

(Total for Question 8 is 4 marks)

_____

9   The diagram below shows a **rectangular sandpit** drawn to scale. **1cm represents 5m**

(a) Work out the **real length** of the sandpit.

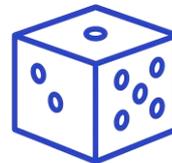…………………………………. m

(1)

(b) Work out the **real width** of the sandpit.

…………………………………. m

(1)

(c) Work out the **real perimeter** of the sandpit.

…………………………………m

(2)

(Total for Question 9 is 4 marks)

_____

10   Here are the first 5 terms of a number sequence,

4 , 10 , 16 , 22 , 28

(a) Work out the **8th term** in the number sequence?

…………………………………….
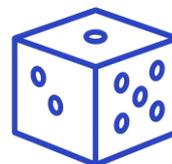
(1)

(b) Write down an **expression**, in terms of n, for the nth term of the number sequence.

…………………………………….

(2)

(Total for Question 10 is 3 marks)

_____

11 t=2s-6

(a) Work out the **value** of t when s = 10.

....

(2)

(b) **Simplify**:   4f + 2e - 5f + e

....

(2)

(Total for Question 11 is 4 marks)

_____

12 Ingredients for 12 cupcakes:

Sugar:	180 g
Flour:	240 g
Butter:	120 g

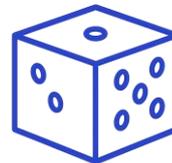(a) A baker wants to make **18 cupcakes**.

How much **flour** will be needed?

....g

(2)

(b) The baker has **500 g of butter**.

What is the **maximum number of cupcakes** they can make?

....

(3)

(Total for Question 12 is 5 marks)

_____

13 (a) 124 x 65

....

(2)

(b) 675 ÷ 15

....

(2)

(Total for Question 13 is 4 marks)

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14 (a) Write 150 as a **product** of its **prime factors**.

....

(2)

(b) Find the **lowest common multiple** (LCM) of 20 and 45.

....

(2)

(Total for Question 14 is 4 marks)
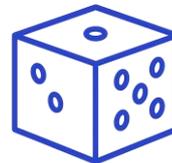
15   A bakery sells flour and sugar.

3 kg of flour costs £6.75.

4 kg of flour and 2 kg of sugar cost £14.30.

Work out the **cost of 1 kg of sugar**.

Give your answer in **pounds (£)**.

£…………………………………

(Total for Question 15 is 3 marks)

_____

TOTAL FOR PAPER IS 40 MARKS